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Estimating a crop root system from limited core samples

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Publication date:
2002

Citation for published version (APA):

King, J. A., Gay, A. P., Villalobos, J. (Ed.), & Testi, L. (Ed.) (2002). *Estimating a crop root system from limited core samples*. 15-18. <http://hdl.handle.net/2160/3921>

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European Society for Agronomy

VII CONGRESS

Cordoba, Spain, 15-18 July 2002

Programme

Last updated: 04 July 2002



ESA

Sunday, 14 July

19:00

Registration

20:45

21:00

Welcome Reception

22:00

Monday, 15 July - ROOM 1

	Opening Ceremony		
9:00	<div> <div>E. Fereres</div> <div>Presidential address</div> </div> <div> <div>J. von Braun</div> <div>Opening Address:</div> <div>European Agricultural Research in a Changing International Policy Environment</div> </div>		
10:30	COFFEE BREAK		
11:00	POSTER SESSION:	Crop Quality and Post-Harvest Physiology Cropping and Farming Systems Seed Science and Technology ESA ASA CSSA SSSA Symposium on Water Limited Agriculture Nitrogen and Environment	
	Chair: N.C. Turner ESA ASA CSSA SSSA Symposium on Water-Limited Agriculture (ESA Div. 1,2,3)		
12:00	Sinclair T.	"REALISM" IN THE ART OF CROP TRAIT IMPROVEMENT FOR WATER-LIMITED ENVIRONMENTS	Symposium on water-limited agriculture
12:15			
12:30	Steduto P.	WATER PRODUCTIVITY OF PLANTS AND MOLECULAR BIOLOGY: AN ECO-PHYSIOLOGIST POINT OF VIEW	
12:45			
13:00	Jensen C.R.	A MODEL SYSTEM SHOWING POSSIBLE REGULATION OF SHOOT FUNCTIONING IN FIELD GROWN MAIZE EXPOSED TO SOIL DRYING	
13:15	Asseng S.	CONTRIBUTION OF CARBOHYDRATES STORED PRIOR TO GRAIN FILLING TO WHEAT GRAIN YIELD IN VARIABLE ENVIRONMENTS	
13:30	LUNCH		
	Chair: F.J. Villalobos ESA ASA CSSA SSSA Symposium on Water-Limited Agriculture (ESA Div. 1,2,3)		
15:00	Turner N.	ADAPTATION OF CHICKPEA TO WATER-LIMITED ENVIRONMENTS	Symposium on water-limited agriculture
15:15	Garcia del Moral L.F.	PATH COEFFICIENT ANALYSIS OF CORRELATIONS BETWEEN GRAIN FILLING, GRAIN YIELD AND PROTEIN CONTENT IN DURUM WHEAT UNDER TWO MOISTURE REGIMES IN SOUTHERN SPAIN	
15:30	Marsal J.	THE INFLUENCE OF HETEROGENEITY IN FRUIT DISTRIBUTION ON WATER RELATIONS OF PEACH TREES	
15:45	Moriana A.	FRUIT LOAD EFFECTS ON THE WATER RELATIONS OF OLIVE TREES	
16:00	Mastrorilli M.	DOUBLE HARVEST: AN AGRONOMIC STRATEGY TO INCREASE THE WATER USE EFFICIENCY OF BIOMASS CROPS IN MEDITERRANEAN EUROPE	
16:15	Blaha L.	INFLUENCE OF ABIOTIC STRESSES ON THE YIELD, SEED AND ROOT TRAITS	
16:30	COFFEE BREAK		
	Chair: P. Aguiar Pinto ESA ASA CSSA SSSA Symposium on Water-Limited Agriculture (ESA Div. 1,2,3)		
17:00	Hall A.E.	BREEDING FOR ADAPTATION TO DROUGHT: WHAT HAS WORKED AND WHAT HAS NOT WORKED, YET.	Symposium on water-limited agriculture
17:15			
17:30	Debaeke P.	CROP MANAGEMENT ADAPTATION TO WATER-LIMITED ENVIRONMENTS	
17:45			
18:00	Karrou M.	IDENTIFICATION OF POTENTIAL GRAIN GROWTH CHARACTERISTICS FOR BREEDING DURUM WHEAT FOR DRY MEDITERRANEAN ENVIRONMENTS	
18:15	Farre I.	THE RESPONSE OF LUPIN YIELD TO SOWING DATE IN A MEDITERRANEAN ENVIRONMENT: A SIMULATION EXPERIMENT	
21:00	CITY COUNCIL RECEPTION IN THE "ALCAZAR DE LOS REYES CRISTIANOS"		

Monday, 15 July - ROOM 2

Opening Ceremony		
9:00	(SEE FRONT PAGE)	
COFFEE BREAK		
11:00	POSTER SESSION:	Crop Quality and Post-Harvest Physiology Cropping and Farming Systems Seed Science and Technology ESA ASA CSSA SSSA Symposium on Water Limited Agriculture Nitrogen and Environment
Chair: R. HabibCropping and farming systems (ESA Div. 5)		
12:00	Boning-Zilkens M.	COMPARISON OF TRADITIONAL AND OPTIMISED DOUBLE CROPPING SYSTEMS IN A WINTER WHEAT-SUMMER MAIZE ROTATION IN THE NORTH CHINA PLAIN NEAR BEIJING
12:15	Kubat J	THE EFFECT OF ORGANIC AND MINERAL FERTILISATION ON CROP YIELDS AND SOIL PROPERTIES IN THE POLYFACTORIAL FIELD EXPERIMENTS
12:30	Roggero P.P.	EFFECTS OF REPEATED SOD SEEDING OR MINIMUM TILLAGE AND NITROGEN FERTILISATION ON DURUM WHEAT GRAIN YIELD IN THE CLAY HILLS OF CENTRAL ITALY
12:45	Colbach N.	MODELLING BLACK-GRASS (ALOPECURUS MYOSUROIDES HUDS.) GERMINATION AND EMERGENCE DEPENDING ON SEED CHARACTERISTICS, SEED MOVEMENTS AND SOIL CLIMATE
13:00	Kanton R.A.L.	YIELD AND INTERCROPPING ADVANTAGE AS AFFECTED BY MORPHOLOGICALLY AND PHYSIOLOGICALLY CONTRASTING MAIZE-PEA SOLE AND INTERCROPS
13:15		
LUNCH		
Chair: O. ChristenNitrogen and Environment (ESA Div. 2,3,5)		
15:00	Igras J.	RISK OF WATER POLLUTION BY NITRATES FROM AGRICULTURAL ACTIVITIES IN POLAND
15:15	Vianello M.	EFFECTIVENESS OF BUFFER STRIPS IN REMOVING SEDIMENT, NITROGEN AND PHOSPHORUS FROM CROPLAND RUNOFF
15:30	Cavero J.	NITRATE EXPORTED IN THE DRAINAGE WATERS OF TWO SPRINKLER IRRIGATED DISTRICTS
15:45	Teira M.R.	AMMONIA VOLATILISATION FROM ORGANIC RESIDUES APPLIED TO SOIL TOGETHER WITH THE NITRIFICATION INHIBITOR 3,4-DIMETILPIRAZOL PHOSPHATE (DMPP)
16:00	Dauden A.	EFFECT OF PIG SLURRY ON CORN YIELD AND SOIL NITRATE CONCENTRATIONS
16:15	Wery J.	COMBINATION OF TENSIONIC-TENSIONMETERS MEASUREMENTS AND CROP MODELS TO EVALUATE NITRATE LEACHING IN FARMERS FIELDS : A CASE STUDY ON LETTUCE FIELDS IN A MEDITERRANEAN COASTAL PLAIN
COFFEE BREAK		
Chair: M. WangSeed Science and Technology (ESA Div. 7)		
Chair: J. CoutinhoCrop Quality and Post-Harvest Physiology (ESA Div. 4)		
17:00	Van Duijn B.	NON-INVASIVE AUTOMATED OXYGEN CONSUMPTION MEASUREMENT ON SINGLE SEEDS AS A NOVEL TOOL IN SEED RESEARCH
17:15	Wang M.	SPATIAL AND TEMPORAL EXPRESSION BETWEEN 14-3-3 ISOFORMS IN GERMINATING BARLEY EMBRYOS
17:30		
17:45	Fowler B.	GRAIN PROTEIN CONCENTRATION AND CROP NITROGEN DEMAND IN WHEAT
18:00	Gooding M.	THE EFFECT OF FUNGICIDES ON THE YIELD AND QUALITY OF WHEAT GRAIN
18:15	Kauter D.	AN APPROACH TO ON FIELD FUEL QUALITY MANAGEMENT OF WINTER TRITICALE
21:00	CITY COUNCIL RECEPTION IN THE "ALCAZAR DE LOS REYES CRISTIANOS"	

Tuesday, 16 July - ROOM 1

	Chair: J. Porter		ESA ASA CSSA SSSA Symposium on Water-Limited Agriculture (ESA Div. 1,2,3)			
09:00	Richter G.M.	DROUGHT-GREATER RISK FOR FUTURE WHEAT PRODUCTION IN ENGLAND?			Symposium on water-limited agricultur	
09:15	Justes E.	THE EFFECT OF CATCH CROPS ON THE WATER BUDGET OF THE FALLOW PERIOD AND THE SUCCEEDING MAIN CROP				
09:30	Consoli S.	OPTIMIZATION CRITERION OF WATER DISTRIBUTION FOR DEFICIT IRRIGATION SYSTEMS				
09:45	Girona J.	VINEYARD RESPONSE TO DIFFERENT IRRIGATION STRATEGIES. FIRST YEAR (2001) RESULTS				
10:00	Ortega Alvarez J.F.	MANAGEMENT OF WATER RESOURCES USING INTEGRATED TECHNIQUES. PROJECT MERIT (EVK1-CT-2000-00085)				
10:15	Zapata N.	CHANGES INDUCED BY A MODERNIZATION PROJECT IN AN IRRIGATION DISTRICT				
10:30	COFFEE BREAK					
11:00	POSTER SESSION:	Agroclimatology and Agronomic Modelling Workshop on Research for Developement Precision Agriculture Nitrogen and Management Global Change				
	Chair: I. Mínguez		ESA ASA CSSA SSSA Symposium on Water-Limited Agriculture (ESA Div. 1,2,3)			
12:00	Connor D.	DESIGNING CROPPING SYSTEMS FOR EFFICIENT USE OF LIMITED WATER				Symposium on water-limited agricultur
12:15						
12:30	Francis C.A.	AGROECOLOGY OF WATER USE AT THE FIELD, FARM, AND LANDSCAPE LEVELS				
12:45						
13:00	Sadras V.	INFLUENCE OF SIZE OF RAINFALL EVENTS ON WATER BUDGET COMPONENTS AND NITROGEN MINERALISATION				
13:15	Robertson M.J.	TESTING OF NEAR-FEASIBLE CROPPING OPTIONS WITH DRYLAND FARMERS				
13:30	LUNCH					
	Chair: J.P. De Melo e Abreu		Carbon Sequestration and Global Change (ESA div. 1,2,6)			
15:00	Smith P.	CARBON SEQUESTRATION IN EUROPEAN CROPLAND				Global Change
15:15						
15:30	Aguiar Pinto P.	PORTUGUESE AGRICULTURE AND CLIMATE CHANGE				
15:45	de Vries S.C.	DESIGN OF SIMULATION EXPERIMENTS: AN EXAMPLE FOR ASSESSING POTENTIAL IMPACT OF CLIMATE CHANGE ON WHEAT YIELDS AND DEEP DRAINAGE IN WESTERN AUSTRALIA				
16:00	Weigel H.J.	EFFECTS OF FREE-AIR CO ₂ ENRICHMENT (FACE) AND SOIL NITROGEN FERTILIZER ON RADIATION ABSORTION, RADIATION USE EFFICIENCY AND YIELD OF WINTER BARLEY				
16:15	Vaz Correia A.	COMPARING SIMULATED GROWTH OF MANAGED GRASSLANDS UNDER PRESENT AND CLIMATE CHANGE SCENARIOS				
16:30	COFFEE BREAK					
	Chair: M. Donatelli		Agroclimatology and Agronomic Modelling (ESA Div. 2)			
17:00	Brisson N.	ABOUT THE CROP TEMPERATURE AS SIMULATED BY THE STICS MODEL				Agroclimatology and Agr. Modelling
17:15	Ferreira T.C.	DIURNAL VARIATION OF CANOPY TEMPERATURE IN PLANT ROWS OF GRAPEVINE (VITIS VINIFERA L.) ON SOUTH FACING SLOPES OF THE DOURO VALLEY IN RESPONSE TO WATER AND MICROCLIMATE CONDITIONS				
17:30	Durand J.L.	AN ALTERNATIVE TO THE LOGISTIC EQUATIONS FOR SIMULATING SHOOT ELONGATION				
17:45	Diaz Espejo A.	ARE WE MANAGING CORRECTLY THE CANOPY OF OUR OLIVE TREES?				
18:00	Vanderlinden K.	SPATIAL DISTRIBUTION OF REFERENCE CROP EVAPOTRANSPIRATION IN ANDALUSIA				
18:15	Sester M.	MODELLING THE INFLUENCE OF CROPPING SYSTEMS ON GENE FLOW FROM HERBICIDE RESISTANT SUGAR BEET. PRESENTATION OF THE MODEL GENESYS-BEET				
21:00	INFORMAL PARTY IN THE "COLEGIOS MAYORES"					

Tuesday, 16 July - ROOM 2

	Chair: J.L. Durand		Crop Physiology, Production and Management			
09:00	Tokatlidis I.S.	THE DEPENDENCE OF MAIZE HYBRIDS ON PLANT DENSITY AND THE CONSEQUENT IMPLICATIONS				Crop Physiology
09:15	Wiecko G.	TURFGRASS IN THE TROPICS REQUIRES NONTRADITIONAL MANAGEMENT				
09:30	Hakala K.	HARDENING, GROWTH RHYTHM AND CARBOHYDRATE METABOLISM OF WINTER RYE (SECALE CEREALE L.) VARIETIES OF DIFFERENT ORIGIN				
09:45	Jordan Meille L.	LEAF AREA ESTABLISHMENT OF FIELD-GROWN MAIZE (ZEA MAYS L.) UNDER POTASSIUM DEFICIENCY				
10:00	Aragues R.	FIELD RESPONSE OF YOUNG OLIVE TREES (CV. ARBEQUINA) TO SOIL SALINITY: GROWTH, LEAF ION CONCENTRATIONS AND OIL QUALITY				
10:15	Zoerb C.	DEVELOPMENT OF A SALT-RESISTANT MAIZE CULTIVAR				
10:30	COFFEE BREAK					
11:00	POSTER SESSION:	Agroclimatology and Agronomic Modelling Workshop on Research for Developement Precision Agriculture Nitrogen and Management Global Change				
	Chair: H. Stuetzel		Precision Agriculture (ESA Div. 1,2,5)			
12:00	Barroso J.	SPATIAL STABILITY OF WILD OAT POPULATIONS UNDER ANNUAL USE OF LOW RATES OF HERBICIDES				Precision Agriculture
12:15	Graeff S.	IDENTIFICATION OF SITE-SPECIFIC MANAGEMENT ZONES TO TARGET NITROGEN APPLICATION				
12:30	Huber G.	YIELD FORMATION AND NITROGEN UPTAKE OF MAIZE ON HETEROGENOUS GROWING SITES - SPECTROSCOPIC DETECTION OF THE NUTRITION STATUS				
12:45	Bechini L.	ESTIMATION OF SOIL PROPERTIES WITH NEAR INFRA-RED SPECTROSCOPY: APPLICATION AT FARM SCALE FOR PRECISION FARMING				
13:00	Verhoef A.	ESTIMATION OF THE SOIL HEAT FLUX USING REMOTELY SENSED VARIABLES				
13:15	Gangloff W.	DEVELOPMENT AND DELINEATION OF PRODUCTION LEVEL NUTRIENT MANAGEMENT ZONES IN THE GREAT PLAINS REGION OF THE UNITED STATES				
13:30	LUNCH					
	Chair: H. Stuetzel		Precision Agriculture (ESA Div. 1,2,5)			
	Chair: H. Spiertz		Nitrogen and Management (ESA Div. 1,3,5,6)			
15:00	Acutis M.	SOIL MOISTURE VARIATION IN SPACE AND TIME IN MAIZE IRRIGATED FIELDS				Precision Agric.
15:15	Guerif M.	ASSIMILATING REMOTE SENSING DATA INTO A CROP MODEL IMPROVES THE YIELD ESTIMATES ON A REGIONAL SCALE				
15:30	Zarco Tejada P.	LEAF CHLOROPHYLL A+B AND CANOPY LAI ESTIMATION IN CROPS USING R-T MODELS AND HYPERSPECTRAL REFLECTANCE IMAGERY				
15:45	Shaver T.M.	MULTIDISCIPLINARY PRECISION FARMING STRATEGIES TO INCREASE PROFITABILITY AND SUSTAINABILITY IN WESTERN GREAT PLAINS IRRIGATED AGRICULTURE OF THE UNITED STATES				
16:00	Lipski S.	EVALUATION OF MAIZE INBRED LINES FOR THE LIMITED NITROGEN CONTENT IN THE BACKGROUND				N + Manag.
16:15	Leidi E.O.	NITROGEN FIXATION AND CROP PRODUCTION IN AHIPA (PACHYRHIZUS AHIPA)				
16:30	COFFEE BREAK					
	Chair: H. Spiertz		Nitrogen and Management (ESA Div. 1,5,6)			
17:00	Crnobarac J.	N-MIN METHOD IN SUNFLOWER FERTILIZATION				Nitrogen and Management
17:15	Gerendas J.	INFLUENCE OF N FORM ON GROWTH AND WATER RELATIONS OF TOMATO PLANTS				
17:30	Schachtl J.	SPECTROSCOPIC MEASUREMENTS OF POTATO CANOPIES				
17:45	ten Berge H.	ACCUMULATION OF MINERAL NITROGEN IN SOILS UNDER GRASS AND MAIZE				
18:00	van Evert F.	MINAS DETERMINES NITROGEN FERTILIZATION ON DUTCH DAIRY FARMS				
18:15	Thompson, R.	RISK OF NITRATE LEACHING FROM THE HORTICULTURAL INDUSTRY OF ALMERIA, SPAIN				
21:00	INFORMAL PARTY IN THE "COLEGIOS MAYORES"					

Wednesday, 17 July - ROOM 1

	Chair: P. Smith		Agriculture and Environment Relationships (ESA Div. 6)		Agriculture and Environment	
9:00	Spiertz H.J.	RESOURCE USE AND SUSTAINABLE CEREAL PRODUCTION				
9:15	Simoes A.	ECOLOGICAL ECONOMIC ANALYSIS OF AGRICULTURE: A METHODOLOGICAL DEVELOPMENT AND A CASE STUDY				
9:30	Van de Ven G.W.J.	FARM EXPLORER: DESIGNING SUSTAINABLE ARABLE FARMING SYSTEMS				
9:45	Bockstaller C.	SOME METHODOLOGICAL ISSUES IN THE CONSTRUCTION OF ENVIRONMENTAL INDICATORS				
10:00	Ferro Godinho M.L.	ARE ENVIRONMENTAL FRIENDLY FARM HOLDINGS DIFFERENT? THE CASE OF PORTUGAL				
10:15	Thiollet M.	ADAPTATION OF A PESTICIDE INDICATOR TO THE WATERSHED SCALE				
10:30	COFFEE BREAK					
11:00	POSTER SESSION: Crop Physiology, Production and Management Plant-Soil Relationships Agriculture-Environment Relationships Heavy Metals					
	Chair: N. Brisson		Agroclimatology and Agronomic Modelling (ESA Div. 2)			Agroclimatology and Agr. Modelling
12:00	Van Ittersum M.K.	TOWARDS AN INTEGRATED SYSTEM FOR AGRO-ECOLOGICAL AND ENVIRONMENTAL MODELLING				
12:15	Pellegrino A.	A WATER BALANCE MODEL CAN BE USED TO EVALUATE THE WATER STRESS EXPERIENCED BY A CROP IN FARMER'S FIELDS : A CASE STUDY IN VINEYARDS IN SOUTH-EASTERN FRANCE				
12:30	Hochman Z.	USING THE CROPPING SYSTEMS SIMULATOR APSIM TO INVESTIGATE THE IMPACTS OF SUBSOIL CONSTRAINTS ON WHEAT PRODUCTION				
12:45	De Melo e Abreu J.P.	SIMULATION OF GROWTH, YIELD AND N, P AND K UPTAKE OF FIELD-GROWN GREEN BEANS				
13:00	Ewert F.	PREDICTING POTENTIAL DISTRIBUTION OF KARNAL BUNT (TILLETIA INDICA) OF WHEAT				
13:15	Nibouche S.	COTONS® - SIMBAD: A TOOL FOR ESTABLISHING COTTON BOLLWORM ECONOMIC DAMAGE THRESHOLDS				
13:30	LUNCH					
	Chair: van Ittersum M.K.		Agroclimatology and Agronomic Modelling (ESA Div. 2)			Agroclimatology and Agr. Modelling
15:00	Berszenyi Z.	COMPARISON OF MODELS DESCRIBING MAIZE (ZEA MAYS L.) YIELD RESPONSE TO FERTILISER IN A LONG-TERM EXPERIMENT				
15:15	El Jarroudi M.	VALIDATION OF "PROCULTURE" MODEL TO PREDICT SEPTORIA TRITICI DEVELOPMENT ON WINTER WHEAT IN THE GRAND-DUCHÉ OF LUXEMBOURG IN 2001				
15:30	Palma J.	FILLING THE GAPS IN TIME SERIES FROM A FARM METEOROLOGICAL STATION				
15:45	Casali J	LONG TERM ASSESSMENT OF SOIL EROSION RATES IN VINEYARDS, AND ITS APPLICATION FOR USLE MODEL EVALUATION				
16:00	Rossing W.A.H.	SYSTEMATIC GENERATION AND EVALUATION OF CROP ROTATIONS				
16:15						
16:30	COFFEE BREAK					
17:00	ESA General Assembly					
17:15						
17:30						
17:45						
18:00						
18:15						
21:00	SOCIAL DINNER IN THE OLD WINERY "BODEGAS CAMPOS"					

Wednesday, 17 July - ROOM 2

	Chair: D. Picard		Workshop on Research for Development			
9:00	Alvarez I.	AGRICULTURE RESEARCH AND FOOD SECURITY: THE ROAD AHEAD			WS on Research for Development	
9:15						
9:30	Araus J.L.	EU/INTERNATIONAL CO-OPERATION FOR RESEARCH IN AGRICULTURE: FACING THE 6TH FRAMEWORK PROGRAM				
9:45	Martinez J.	MANAGEMENT OF ORGANIC RESIDUES IN AGRICULTURE: AN EUROPEAN PERSPECTIVE				
10:00	Cantero Martinez C.	Evaluation of agricultural practices to improve efficiency and environment conservation in mediterranean arid and semi-arid production systems. (medrate): an example for conservation tillage				
10:15						
10:30	COFFEE BREAK					
11:00	POSTER SESSION:		Crop Physiology, Production and Management Plant-Soil Relationships Agriculture-Environment Relationships Heavy Metals			
	Chair: S. Schubert		Plant-Soil Relationships (ESA Div. 3)			
12:00	Scholtus N.	ROLE OF PLANTS IN ROCK WEATHERING AND THE DYNAMICS OF MINERAL NUTRIENTS			Plant-Soil Relationships	
12:15	Yan F.	MECHANISMS RESPONSIBLE FOR THE RELEASE OF ORGANIC ACIDS BY HIGHLY PHOSPHORUS-EFFICIENT WHITE LUPIN (LUPINUS ALBUS L.)				
12:30	Manici L.	PYTHIUM SPP. AND TOTAL FUNGI RESPONSE TO GREEN MANURING				
12:45	Ford K.E.	ROOT LENGTH DENSITY VARIATION IN MODERN WINTER WHEAT CULTIVARS				
13:00	Rapoport H.F.	ANATOMICAL ASSESSMENT OF THE WHOLE ROOT SYSTEM WHEN INOCULATED WITH ARBUSCULAR MYCORRHIZAE				
13:15	Vamerali	ADVANCES IN MINIRHIZOTRON ROOT IMAGE ANALYSIS				
13:30	LUNCH					
	Chair:S. Schubert		Plant-Soil Relationships (ESA Div. 3)			
	Chair: H.J. Weigel		Heavy Metals (ESA Div. 6)			
15:00	Berti A	EFFECT OF LONG-TERM APPLICATION OF ORGANIC AND MINERAL FERTILISERS ON SOIL WATER HOLDING CAPACITY			Plant-Soil	
15:15	De Neve S.	MONITORING IN SITU SOIL NITRATE CONCENTRATIONS USING TIME DOMAIN REFLECTOMETRY (TDR)				
15:30	Domingo F.	SOIL N-NITRATE EVOLUTION FOR RAINFED WHEAT IN NORTHEAST OF CATALONIA (SPAIN)				
15:45	Bona S.	PHYTOEXTRACTION OF HEAVY METALS WITH BRASSICACEAE SPECIES IN CONTAMINATED SOIL			Heavy Metals	
16:00	Garcia G.	PHYTOSTABILIZATION OF HEAVY METAL POLLUTED SOILS AS A TOOL FOR AVOIDING RISKS IN SUBSIDIARY AGRICULTURAL LANDS				
16:15	Kuzel S.	PHYSIOLOGICAL EFFECTS OF TITANIUM LEAF SPRAYS ON PLANTS. INTERFERENCE WITH MINERAL NUTRIENTS				
16:30	COFFEE BREAK					
17:00	(SEE FRONT PAGE)					
17:15						
17:30						
17:45						
18:00						
18:15						
21:00	SOCIAL DINNER IN THE OLD WINERY "BODEGAS CAMPOS"					

Thursday, 18 July

8:00

GUIDED VISIT TO THE SURROUNDING FARMING SYSTEMS

16:00

Thursday, 18 July

9:00

WORKSHOP D:
SIMULATION WITH COMPONENT MODELS
(REGISTERED PARTICIPANTS)

17:30